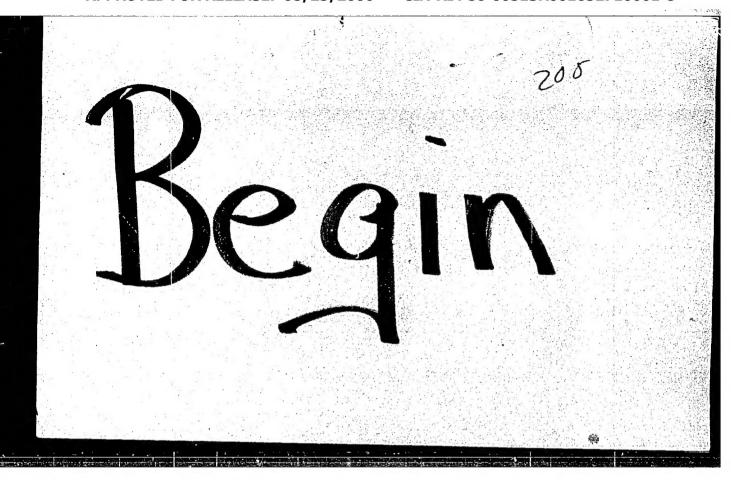
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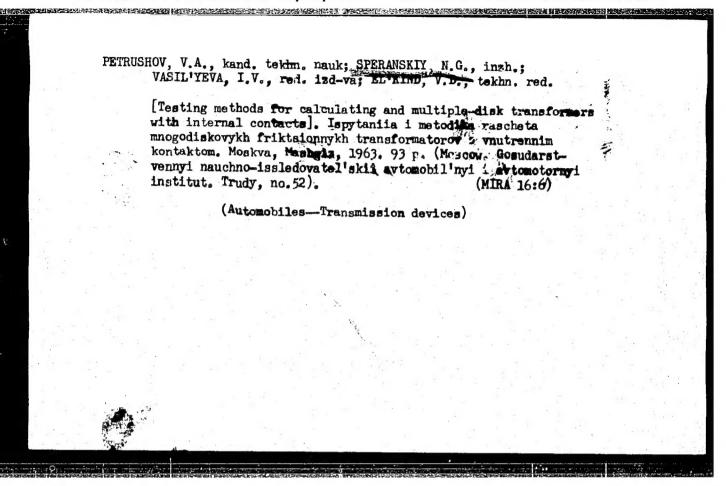


YELIN, A.; SELYAKOV, J.; VISKIN, S.; LOYKO, N.; BUKHGALTER, B.;
VORONKOV, I.; SPERANSKIY, N.

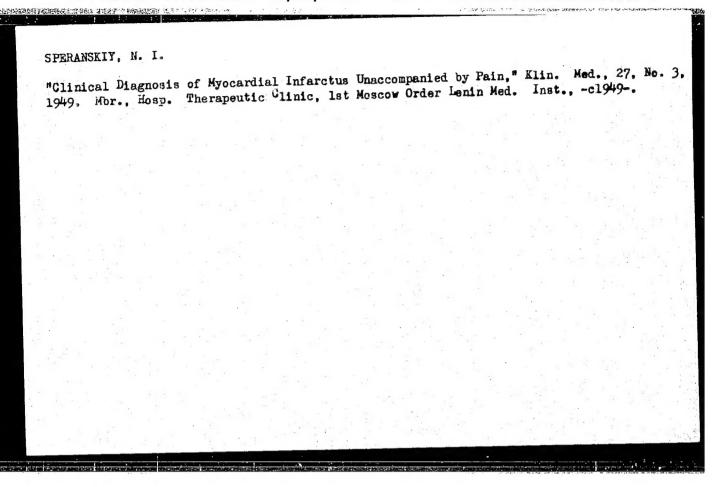
Improvement of planning in the meat industry. Mias. ind. SSSR 32 no.4:33-37 '61. (MITA 14:9)

1. I trakhanskiy myasokombinat (for Yelin). 2. Kazgipromyasomolprom (for Selyakov). 3. Khar'kovskiy myasokombinat (for
Viskin). 4. Leninskiy myasokombinat (Kemerovskiy sovnarkhoz)
(for Bukhgalter). 5. Novgorodskiy myasokombinat (for Toronkov).
6. Buryatskiy sovnarkhoz (for Speranskiy).

(Meat industry)



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SPERANSKIY, N.I.; BELOUS, S.R.

Regional leukocytosis in inflammatory and necrotic diseases of the heart. Ter. arkh., Moskva 25 no.4:76-83 July-Ang 1953. (CLML 25:4)

1. Docent for Speranskiy; Laboratory Physician for Belous. 2. Of the Hospital Therapeutic Clinic (Director -- Prof. A. L. Myasnikov, Active Member AMS USSR) of First Moscow Order of Lenin Medical Institute.

SPERANSKIY, N.I.

Treatment of non-specific infectious polyarthritis with short wave diathermy; result of controlled action on the adrenal cortex. Vop. kur.fizioter.i lech.fiz.kul't. no.1:50-54 Ja-Mr '55. (MLRA 8:8)

1. Opyt napravlennogo voždeystviya na funktsiyu kory nadpochechnikov.

(DIATHERMY, in various diseases,
short wave, in fheum. arthritis)

(ARTHRITIS, RHEYMATOID, therapy,
diathermy, short wave)

SPERANSKIY, N.I., doktor meditsinskikh nauk; OSTROVSKAYA, V.I.

Role of neural factors in stenocardia. Sov.med. 19 no.1:41-45 Ja '55.

(MIR: 8:4)

1. Iz gospital'noy terapevticheskoy kliniki (dir. deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR prof. A.L.Masinkov) I Moskovskogo ordena Lenina Meditsinskogo instituta.

(ANGINA PECTORIS, physiology, reflex mechanism)

SPERANSKIY, N. I.

Resort therapy in cardiovascular diseases. Vop.kur. fizioter.
i lech. fiz.kul't. 23 no.6 :481-485 N-D '58 (MIRA 11:12)

l. Zaveduyushchiy terapevticheskoy klinicheskoy TSentral'nogo instituta kurortologii.
(CARDIOVASCULAR SYSTEM_DISEASES)

SPERANSKIY, N. I.; GLAGOLEVA, N. A.; ZOTOVA, A. T.; LEONOVA, V. M.; ROZENBLIT, Ye. I.; STUDNITSYNA, L. A. (Moskva)

Treatment of stenocardia with novocaine electrophoresis in Zakharin-Head' zones. Klin. med. no.9:103-106 '61. (MIRA 15:6)

1. Iz terapevticheskoy kliniki (zav. - prof. N. I. Speranskiy) TSentral'nogo instituta kurortologii i fizioterapii (dir. G. N. Pospelova)

(ANGINA PECTORIS) (NOVOCAINE)

SPERANSKIY, N.I., Drof.; DAWENKOV, Ya.I., kand.med.nauk; CHERNYKH, G.A. (Moskva)

Postoperative indications and sanatorium and spa therapy of patients following mitral commissurotomy. Klin.med. 39 ro.5: 88-95 My *61. (MIRA 14:5)

1. Iz terapevticheskoy kliniki (zav. - prof. N.I. Speranskiy)
TSentral'nogo instituta kurortologii i fizioterapii Ministerstva
zdravookhraneniya SSSR (dir. - kand.med.nauk G.N. Pospelova).

(MITRAL VALVE—SURGERY)

SPERANSKIY, N.I.; DANEWKOV, Ya.I.

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Should one direct patients with cardiovascular diseases to southern seaside resorts during the hot summer months. Vop.kur., fizioter.i lech. fiz. kul't. 27 no.2:97-102 Mr-Ap '62.

(MIRA 15:11)

1. Iz terapevticheskoy kliniki (zav. - prof. N.I.Speranskiy)
TSentral'nogo instituta kurortologii i fizioterapii (dir. G.N.
Pospelova).

(CARDIOVASCULAR SYSTEM—DISEASES) (SEASIDE RESORTS)

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SPERANSKIY, N.I., prof.; CHERNYKH, G.A.

Sanatorium and health resort treatment of patients with a persistent form of hypertension. Vop kur., fizioter. i lech. fiz. kul't. 27 no.4:307-311 J1-Ag'62 (MIRA 16:11)

1. Iz kardiologicheskogo otdeleniya (zav. prof. N.I.Speranskiy) TSentral'nogo instituta kurortologii i fizioterapii (direktor G.N.Pospelova).

AKULOVA, R.F.; BYKHOVSKIY, Z.Ye.[deceased]; VYGODHER, Ye.B.;

GOL'DFAYL', L.G.; DIK, V.G.; DMITRIYEVA, N.M.; DUBYNINA,

Ye.I.; LEVIN, B.S.; NEZLIN, S.Ye.; SPERANSKIY, N.I.;

SOROKINA, Ye.I.; TKACHENKO, A.F.; FREYDIN, Kh.M.;

CHETVERIKOV, N.S.; VUL'FSON, I.Z., red.; KOKIN, N.M., tekhn.

red.; FRONINA, H.D., tekhn. red.

[Manual for physicians on the selection of sanatoriums and health resorts] Rukovodstve dlia vrachei po sanatorno-kurortnomu otboru. Pri uchastii R.F.Akulovoi i dr. 2 izd., dop. i ispr. Moskva, Medgiz, 1963. 511 p.

(MIMA 16:12)

(SANATORIUMS)
(HEALTH RESORTS, WATERING PLACES, ETC.)

SPERANSKIY, N.I.; GLAGOLEVA, N.A.; ZOTOVA, A.T.; LEONOVA, V.M.; ROZENBLIT, Ye.I.; STUDNITSYNA, L.A.

Result of using aeroion therapy in hypertension and stenocardia. Vop.kur., fizioter. i lech. fiz. kul't. 28 no.2:130-135 Mr-Ap'63. (MIRA 16:9)

1. Iz terapevticheskogo otdeleniya (zav. - prof. N.I. Speranskiy)
kliniki TSentral'nogo instituta kurortologii i fizioterapii
(dir. - kand. med.nauk G.N.Pospelova)

(HYPERTENSION) (AIR, IONIZED—THERAPEUTIC USE)

(ANGINA PECTORIS)

SHEPANSKIY, N.I., prof.

Sanatorium and health resort treatment of stenocardia. Vop. kur. fizioter. i lech. fiz. kul't. 28 no.3:193-198 My-Je '63. (MIRA 17:5)

1. Iz terapovticheskogo otdeleniya (zav.-prof. N.I. Speranskiy) TSentral'nogo instituta kurortologii i fizioterapii (dir.-Land. med. nauk. G.N. Pospelova).

SPERANSKIY, M.I., prof.; SOROKINA, Ye.I.

Hexamethonium of sympathetic ganglionitis with cardiac pain syndrome. Ter. arkh. 35 no.4:13-19 Ap'63 (MIRA 17:1)

1. Iz terapevticheskogo otdeleniya (zav. - prof. N.I.Speranskiy) TSentral*nogo instituta kurortologii i fizioterapii.

SPERANSKIY, N.I.prof.; SOROKINA, Ye.I. (Moskva)

Coronary pain syndrome in sympathicoganglichitis. Klin. med. 41 no.7:13-18 J1:63 (MIRA 16:12)

1. Iz terapevticheskogo otdeleniya (zac. - prof. N.I.Speranskiy) TSentral'nogo instituta kurortologii i fizioterapii (dir. G.N. Pospelova).

SPERAISKIY, N.I., prof.; SCROKING, Ye.I.

Expediency of balneological treatment of stenocardia in patients with atherosclerosis. Yop. kur. fizioter. i lech. fiz. kul't. 28 no.3:199-204 Ny-Je '64. (MIRA 17:5)

1. Iz terapevnicheskogo otdeleniya (zav.-prof. N.I. Speranskiy) TSentral'nego instituta kurortologii i fizioterapii (dir. - kand. med. nauk G.N. Pospelova).

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SPERANSKIY, N.I.; SOROKINA, Ye.I.; BELAYA, N.A.

Use of massage in cervical-thoracic radiculitis and sympathiceganglionitis with cardialgia syndrome. Zhur. nevr. i psikh. 65 no.2:222-227 '65. (MIRA 18:9) (MIRA 18:9)

1. TSentral'nyy institut kurortologii i fizioterapii (direktor dotsent G.N. Pospelova), Moskva.

s/170/62/000/006/005/011 3117/3138

Mikryukov, V. Ye. (Deceased), Speranskiy, N. M.

AUTHORS:

Card 1/3

Heat conductivity and specific electrical resistivity of

TITLE:

nickel-zinc ferrites Inzhenerno-fizicheskiy hurnal, no. 6, 1962, 38 - 42

TEXT: Ni-Zn ferrites used in radio and electronic circuits have working temperatures of 100 - 250°C. Heat conductivity, electrical resistivity, and Curie points of seven Ni-Zn ferrite samples were studied between 50 and 350°C. The heat conductivity was measured with high accuracy (maximum error 1 %) by the absolute method of the plane layer with an apparatus designed by Engineer G. I. Shelkovnikov. The Curie points were found with apparatus of V. I. Chechernikov (V. I. Chechernikov and Yu. D. Volkov Vestnik Moskovskogo universiteta, seriya fiziko-matem., no. 2, 1959) which is based on the principle of fixing the paramagnetic susceptibility of substances by the Faraday-Sucksmith method. The Curie points determined lay between 270 and 290°C. From a certain relationship between heat conductivity and Curie points it was assumed that the heat conductivity can

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Heat conductivity and specific ...

be used as a reliable parameter for determining Curie points of ferrites. To establish possible structural changes under heat absorption and emission, the samples were tested by a Kurnakov apparatus. No endo- or exothermic processes were observed. The heat conductivity of Ni-Zn ferrites depends essentially on the heat conductivity of the lattice. It is inversely proportional to the zinc oxide content. This may be due to: (1) structural distortions caused by zinc atoms, favoring the scattering of phonon waves and thus reducing the heat conductivity; (2) the size of grains in the sample, though this effect is smaller than that of distortions. The heat conductivity of Ni-Zn ferrites increases with increasing temperature. Such a temperature dependence may be due to the thermal capacity and the mean free path of phonons. This should be clarified by studying the thermal capacity of Ni-Zn ferrites. The electrical resistivity was found to increase with increasing content of nickel ions in the sample, and decrease with increasing temperature. There are 3 figures and 2 tables.

ASSOCIATION: Gosudarstvennyy universitet im. M. V. Lomonosova, G. Moskva (State University imeni M. V. Lomonosov, Moscow)

125 2/3

S/170/62/000/006/005/011

Heat conductivity and specific ...

SUBMITTED: November 9, 1961

L 9878-66 EWT(1) SOURCE CODE: UR/0188/65/000/005/0045/0048 ACC NR: AP5025159 AUTHOR: Chechernikov, V. I.; Speranskiy, N. M.; Malyshev, 44,55 44155 TITLE: Electrical, thermal, and some magnetic properties of nickel-cadmium ferrites 21.44,55 SOURCE: Moscow. Universitet. Vestnik. Seriya III. Fisika, astronomiya, no. 5, 1965, 45-48 TOFIC TAGS: ferrite, nickel compound, cadmium compound, electric resistance, heat conductivity, hardness, magnetic susceptibility, crystal lattice ABSTRACT: A study was made of the electric resistivity (p), heat conductivity coefficient (λ) , magnetic susceptibility, microstructure, and microhardness of nickelcadmium ferrites containing variable amounts of Fe₂O₃ (55.1-68.6), NiO (3.9-39.4), and CdO (2.9-40.7%). The electric resistivity was measured by the 2-probe method in the temperature range of 20-9000, i.e. in the ferro - and paramagnetic regions. The rectilinear curves of $\log q = f(1/T)$ in all samples UDC: 621.318.13:53

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ACC NR: AP5025159

had inflections, before and after which the known law $\rho = Ae^{-(F/kT)}$ was applicable. The electric resistivity (9) and the energy of activation (A), according to the value of the curve inclinations, decreased with increased amounts of cadmium in the nickel-cadmium ferrites. It was possible that the increased amount of cadmium ions changed the lattice constant and the distribution of ions in the sublattice. The effect of temperature on heat conductivity (λ) was studied in the temperature range of 20-5000 by the V. E. Mikryukov and N. M. Speranskii method (Inzhenerno-fizicheskii zhurnal VI, 1962). The λ in each sample was constant. This indicated that the law λ T const., which was supposedly characteristic of bodies having a thermal lattice conductivity, was not applicable to the nickel-cadmium ferrites. The thermal conductivity of nickelcadmium ferrites was basically affected by the lattice vibrations. The value of λ decreased with increased amounts of cadmium ferrites. This was evidently caused by structure distortions in the lattice affected by the addition of cadmium ions having an atom radius much larger than nickel and iron. A study of the microstructure of samples suggested that the thermal conductivity of nickel-cadmium ferrites decreased with increased average grain size. Magnutic susceptibility at 100-2000, i.e. in the region of the Curie point, changed little and monotonically. Then it decreased rapidly with decreased temperature

Card 2/3

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and at T>Or followed the Neel law. The magnetic susceptibility near the Curie ferromagnetic point (T=Or) was a function of the magnetic field intensity. The study showed that both the electric and the heat conductivity in nickel-cobalt ferrites behaved in the same manner. The electric conductivity was caused mainly by electron transitions between the iron ions, whereas thermal conductivity was controlled by lattice vibrations. The authors thank Professor E. I. Kondorskii for his advice. Orig. art. has; 2 figures and 1 table.

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NR REF SOV: OO2/ OTHER: OOO

OTHER: OOO

L 6975-66 EMP(2)/EMT(m)/EMP(b)/EMP(1) IJP(c) JD/HM/JG/MJW(cl)

ACC NR: AP5018871

SOURCE CODE: UR/0126/65/020/001/0157/0159

AUTHOR: Chechernikov, V. I.; Speranskiy, N. M.; Terekhova, V. F.; Rozhkova, R. S.

ORG: Moscow State University im. M. V. Lomonosova (Moskovskiy gosuniversitet)

59

TITLE: Several magnetic properties of Ni-Eu alloys

SOURCE: Fizika metallov i metallovedeniye, v. 20, no. 1, 1965, 157-159

TOPIC TAGS: Europium compound, nickel containing alloy, magnetic property, paramagnetic susceptibility

ABSTRACT: Temperature dependence (300-1000°C) of paramagnetic susceptibility using the Faraday method at 10^{-3} to 10^{-4} mm Hg was studied for specimens containing 0.77, 2.0, 3.26, 3.6 and 6.38% Eu. Samples of electrolytic Ni of 99.9% purity and Eu not containing more than .2% total impurities were cast and remelted under 15 atm of helium 3-4 times in a tungsten-arc furnace and then homogenized for 100 hrs at 1100° C. Microstructural examination showed the presence of a eutectic Ni(a) + Ni₁₇Eu₂, which increased with increasing Eu. The eutectic transformation temperature was $1190^{\frac{1}{2}}$ 10°C. The solubility of Eu in Ni does not exceed 0.77% at.% Eu.

Cord 1/3

UDC: 546.661 : 538.214

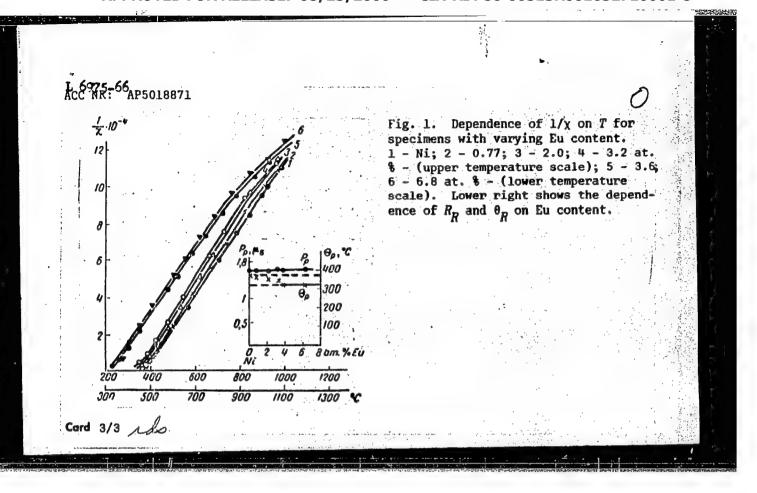
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The compound Eu₂Ni₁₇ (Th₂Ni₁₇ type) was indexed at c/a = 0.968 giving lattice parameters a = 8.36 Å and c = 8.09 Å and intensity measurements indicate an hexagonal structure. The hardness of the compound was 271 kg/mm² as compared with 70 kg/mm² for pure Ni. The variation of the reciprocal of the susceptibility $1/\chi$ with temperature is shown in fig. 1. The Curie-Weiss equation gives the susceptibility where χ_{k} is the temperature insensitive susceptibility. The susceptibility of Ni - 6.38% Eu is almost an order of magnitude greater than for pure nickel. The magnetic moment R_{R} is almost independent of the composition - a small increase in R_{R} takes place at 6.38% Eu. The paramagnetic Curie point θ_{R} drops initially with increasing Eu and then from 3.0 to 6.38% Eu remains constant. Orig. art. has: 1 figure and 1 formula.

SUB CODE: MM/ SUBM DATE: 240ct64/ ORIG REF: 000/ OTH REF: 000

Card 2/3



EWT(m)/EWP(w)/EWG(m)/T/EWP(t)/EWP(b) IJP(c) RDW/JD L 1358-66 UR/0126/65/020/002/0299/0301 ACCESSION NR: AP5021942 546.657:538.214 AUTHOR: Chechernikov, Magnetic properties of iron-neodymium alloys TITLE: 527 55/21 metallovedeniye, v. 20, no. 2, 1965, 299-301 SOURCE: TOPIC TAGS: iron containing alloy, neodymium containing alloy, magnetic properties constitution diagram, ferromagnetic region, paramagnetic region, Curie point, antiferromagnetic interaction, three sublattice structure ABSTRACT: Pure carbonyl iron (99.9%) and neodymium metal (99.5%) were smelted together in an arc furnace with a nonconsumable tungsten electrode in a purified helium atmosphere under a pressure of 300-400 mm Hg. The resulting alloys containing different proportions of Fe to Nd were remelted several times to assure homogeneity and annealed in evacuated quartz ampoules at 600 and 900°C for 130 hr. Subsequent microstructural and X-ray analyses of the sphere- and rod-shaped specimens showed that most of the obtained alloys are of two-phase kind and represent mechanical mixtures of solid solutions (based on pure components) with chemical compounds (Fe, W, and Fe, Md). Such a type of constitution diagram largely deter-Card 1/3

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mines the magnetic properties of these alloys. The magnetic properties were investigated with the aid of the magnetic scale described by V. I. Chechernikov (Vestnik MGU, ser. fiz., 1957, no 1, 47), at first in the ferromagnetic region. It turned out that in alloys containing from 10.52 to 85 at. % Nd, below the ferromagnetic Curie point 0, there exists a temperature range in which magnetization decreases to a minimum whereupon it again rises, and then again drops to zero at T = 0. The investigations were also carried out in the paramagnetic region, where they made it possible to calculate the effective magnetic moment P, and the temperature of the paramagnetic Curie point. The temperature range of investigations in both the ferromagnetic and the paramagnetic regions was 300-1300°K. It is concluded from the findings that in the Fe-Nd alloy system there exists, along with the ferromagnetic. also an antiferromagnetic interaction which is most clearly manifested in the case of the one-phase compound Fe₁₇Md₂. As the experiments revealed, in the region of existence of this compound the magnetic moment of alloy reaches a minimum and the paramagnetic Curie point is much lower than in pure iron. It is possible that a three-sublattice structure exists in the Fe-Nd system, with positive interaction existing between homogeneous atoms and negative interaction between the atoms of Fe and Nd. The magnetization of Fe-Nd alloys throughout the temperature range investigated is conditioned by the Fe atoms; it is not completely compensated, since the magnetic moment of the Fe atom exceeds that of the Ed atom. "In conclusion the

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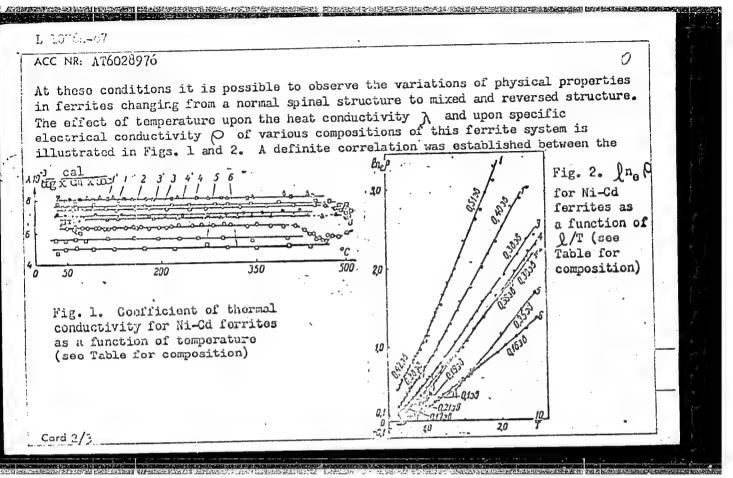
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CHECHERNIKOV, V.I.; SPERANSKIY, N.M.; MALYSHEV, N.I.

Electric, thermal and some magnetic properties of nickel-cadmium ferrites. Vest. Mosk. un. Ser. 3: Fiz., astron. 20 no.5:45-48 S-0 '65. (MIRA 18:11)

1. Kafedra magnetizma Moskovskogo universiteta. Submitted May 12, 1964.

Ju/: 1 Ur(c) L(u)/sh(u)/sh(u)/sh(u)/sh(u)SOURCE CODE: UR/COO3/66/000/000/0071/0075 ACC NR. ATGO28976 AUTHORS: Chochernikov, V. I.; Speranskiy, N. M.; Malyshev, N. I. ORG: none TITLE: Magnetic, thermal, and electrical properties of nickel-cadmium ferrites SOURCE: Vsesoyuznoye soveshchaniye po ferritam. 4th, Minsk. Fizicheskiye i fizikokhimicheskiye svoystva ferritov (Physical and physicochemical properties of forritos); doklady soveshchaniya. Minsk, Nauka i tekhnika, 1966, 71-75 TOPIC TAGS: ferrito, electric resistance, magnetic susceptibility, heat conductivity, nickel compound, cadmium compound ABSTRACT: Specific electrical resistance, heat conductivity, and magnetic susceptibility of nickel-cadmium ferrites have been studied as functions of temperature The chemical composition of the specimens within a temperature range up to 5000. Chemical analysis, is listed in Table 1 Specimen Fe₂O₃ NiO CIO 65,2 10.4 20.8 17,5 63,9 15.3 20.7 61,8 24,3 14,3 61,4 37,0 5,4 57,6 44.6 55.4 Card 1/3



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ACC NR: A16028976

investigated properties, especially a regularity between the temperature and composition of the ferrite, on one hand, and the specific electrical resistivity and heat conductivity, on the other. The obtained data indicate that the decisive role in determining these properties is played by the electrons located in apices of the crystal lattice. Orig. art. has: I table and I figures.

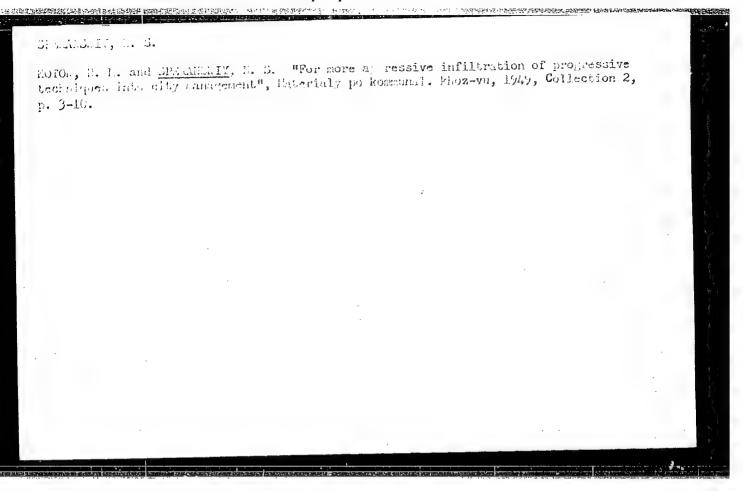
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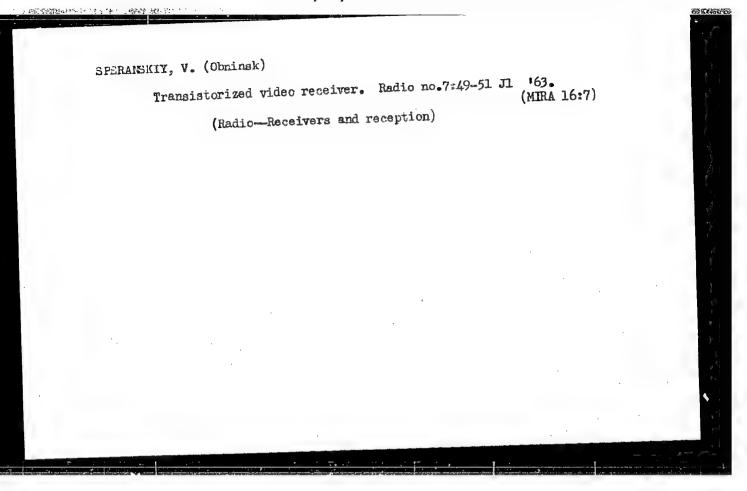
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SPERANSKIY, Nikolay Nikolayevich; KHARCHENKO, Grigoriy Stepanovich; OGIYENKO, S.I., red.; RADNAYEV, A.N., tekhn. red.

[First place in the meat industry of the East] Pervenets miasnoi industrii Vostoka. Ulan-Ude, Buriatskoe knizhnoe izd-vo, 1960. 86 p. (MIRA 14:11)

(Buryat-Mongolia-Meat industry)





VARLAMOV, R., inzh.; SPERANSKIY, V.

Transistorized audio tracking device. Radio no.11:25-27 N '63.

(MIRA 16:12)

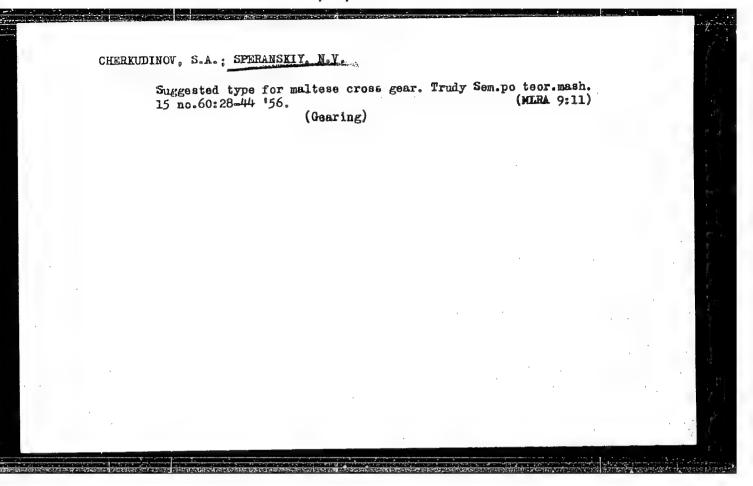
CHERKUDKINOV, S. A., SPERANSKIY, N. V.

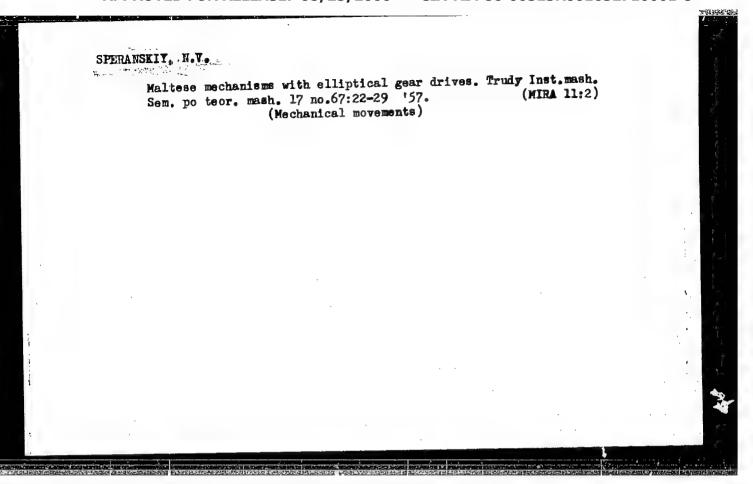
Mechanical Engineering

Synthesis of flat, hinged mechanisms with stops. Trudy Sem.teor.mash. 11, No. 43, 1951.

9. Monthly List of Russian Accessions, Library of Congress, June 1952. UNCLASSIFIED.

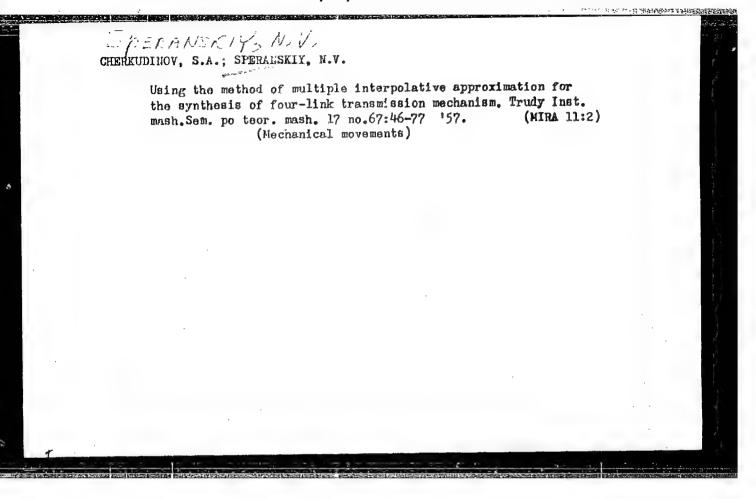
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9. Monthly List of Russ		
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CHERKUDINOV, S.A.; SPERANSKIY, N.V.

Using the method of interpolative approximation with a single high-multiplicity unit for the synthesis of four-link transmission mechanisms. Part 2. Trudy Inst.mash.; Sem.po teor. mash. 18 no.71:60-68 '58. (MIRA 12:1) (Mechanical movements)

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Speranskiy, Nikolay Vasil'yevich

Proyektirovaniye mal'tiyskikh mekhanizmov (Designing Geneva Mechanisms) Moscow, Izd-vo AN SSSR, 1960. 94 p. (Series: Problemy teorii mashin) Errata slip inserted. 4,000 copies

Sponsoring Agency: Akademiya nauk SSSR. Institut mashinovedeniya.

Editorial Board: I. I. Artobolevskiy (Resp. Ed.) Academician, V. I. Dikushin, Academician, S. V. Serensen, Academician, V. I. Dikushin, Adademician, S. V. Serensen, Adademician, Academy of Sciences Ukrainskaya SSR, S. V. Pinegin, Doctor of Technical Sciences, Professor, A. I. Levitskiy, Doctor of Technical Sciences, Professor, F. M. Dimentberg, Doctor of Technical Sciences, A. Ye. Kobrinskiy, Doctor of Technical Sciences, N. P. Rayevskiy, Candidate of Technical Sciences and A. P. Ressonov Candidate of Technical Sciences and A. P. Ressonov Candidate of Technical Sciences Sciences, and A. P. Bessonov, Candidate of Technical Sciences (Scientific Secretary); Resp. Ed.: I. I. Artobolevskiy, Academician; Ed. of Publishing House: V. A. Sokolova-Chestnova; Tech. Ed.: L. A. Sushkova.

Card-1/1

LITVIN. Faydor L'vovich; GRUBIN. A.N., prof., doktor tekhn.nauk, retsenzent; SPENANXII, N.V., red.; KRIUCHKOVA, V.N., tekhn.red.

[Theory of gears] Teoriia zubchatykh zatseplenii. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1960. 444 p. (MIRA 14:3)

(Gaaring)

CHERKUDINOV, S.A.; SPERANSKIY, N.V.

Design of a balancing spring mechanism. Trudy Inst.mash. Sem. po teor.
mash. 21 no.81/82:4-11 %0.

(Balancing of machinery)

(Balancing of machinery)

GERONIMUS, Yakov Lazarevich; SPERANSKIY, N.V., red.; MURASHOVA, N.Ya., tekhn. red.

[Geometrical apparatus of the theory of synthesis of plane mechanisms]Geometricheski apparat teorii sinteza ploskikh mekhanizmov. Moskva. Fizmatgiz, 1962. 399 p. (MIRA 15:11) (Geometry, Modern) (Mechanics, Analytic)

"APPROVED FOR RELEASE: 08/25/2000 CIA-R

CIA-RDP86-00513R001652710001-8

AUTHOR:

_Speranskiy, R.V., Engineer

SOV-91-58-9-6/29

TITLE:

Remodelling the Discharge Device in Feed Pumps (Rekonstruktsiya razgruzochnogo ustroystva pitatel'nykh nasosov)

PERIODICAL:

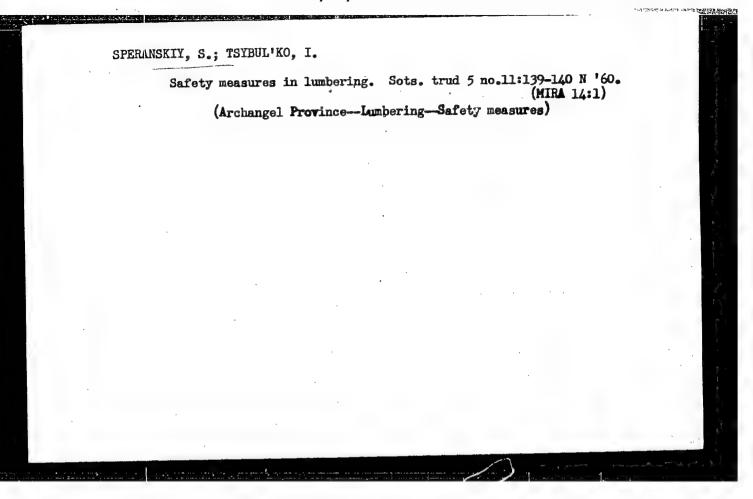
Energetik, 1958, Nr 9, p 16 (USSR)

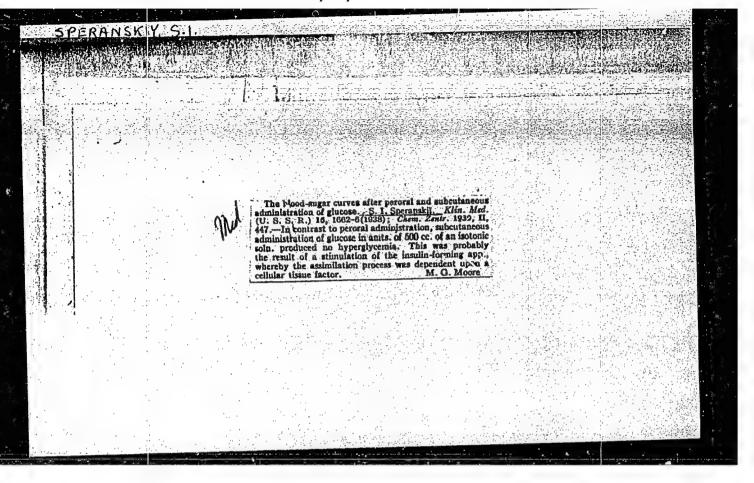
ABSTRACT:

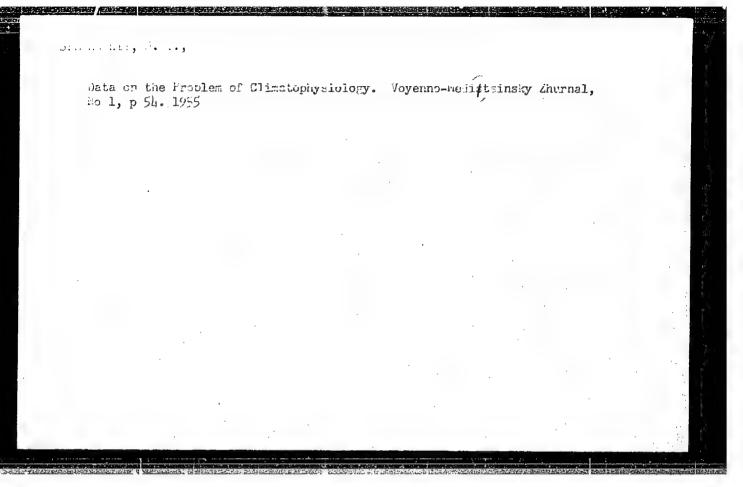
To prevent water boiling in the feed pump when the load is small, the pump is fitted with a discharge line connecting its pressure outlet with an equalizing chamber or deaerator. In the 5Ts-10 pumps, the internal bush of the discharge device has a small area of contact with the upper and lower flanges. The valve needle also "rubs" on the bush. Serious metal erosion takes place around the bush. A remodelled discharge device is shown which has largely solved this defect. The bush has a wider area of contact with the flanges and paranite linings have been fitted to both upper and lower flange surfaces instead of to just one. The remodelled device has proved superior to the old one in practice. There are 2 diagrams.

1. Feed pumps—Design 2. Feed pumps—Operation 3. Water pump rotors—Design

Card 1/1

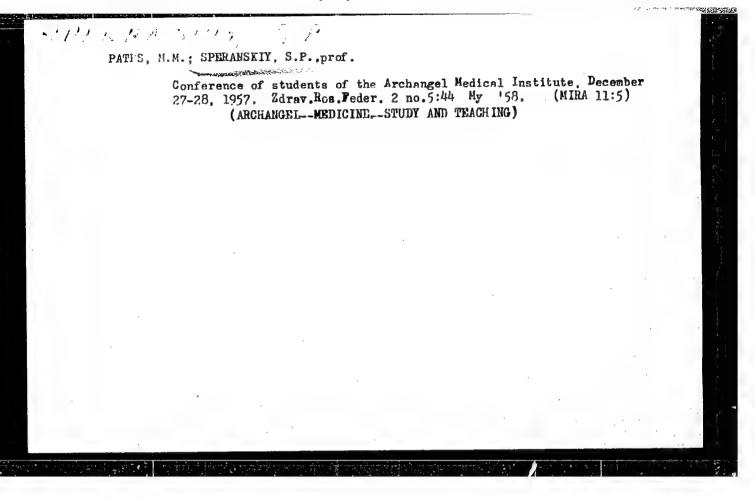






"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001652710001-8



AUTHOR:

Speranskiy, S.F., Professor

3-58-6-16/34

TITLE:

Film Lectures at a Medical Institute (Kinolektsii v meditsinskom

institute)

PERIODICAL:

Vestnik Vysshey Shkoly, 1958, Nr 6, p 69-70 (USSR)

ABSTRACT:

Starting with the 1956/57 school year, several chairs of the Arkhangel'sk Medical Institute began to make use of scientific instructional and documentary motion pictures at their lectures. The author describes the various ways in which the films are

being presented.

ASSOCIATION: Arkhangel'skiy meditsinskiy institut (Arkhangel'sk Medical

Institute)

Card 1/1

SPERANSKIY, S.P., prof.

sa janana kan masa waten sa sa

Role of motion pictures in the personnel development of medical students and in disseminating medical information to the public. Zdrav.Ros. Fed. 2 no.9:9-14 S 58 (MIRA 11:10)

1. Iz Arkhangel'skogo meditsinskogo instituta (dir. A.A. Kirov)
(MOTION PICTURES IN MEDICINE)

SPERANSKIY, S.P., prof.

Research work of students at the Archangel Medical Institute. Zdrav.
Ros. Feder. 3 no.4:31-32 Ap '59. (MIRA 12:4)

1. Iz Arkhangel'skogo meditsinskogo instituta (dir. - dots. A. Kirov)

(ARCHANGEL-MEDICAL RESEARCH)

KIFOV, A.A., dots.: SPERANSKIY, S.P., prof.

Participation of the Archangel Medical Institute in the work of the public health organs. Zdrav.Ros.Feder. 3 no.7:37-40 Jl '59.

(MIRA 13:1)

1. Iz Arkhangel'skogo meditsinskogo instituta (dir. A.A. Kirov)

(ARCHANGKI. PROVINCE--PUBLIC HEALTH)

KOROLENKO, TS. P., assistent; SPERANSKIY, S. V., mladshiy nauchnyy sotrudnik

Electroencephalographic changes in acrichine "psychosis" in animals. Trudy Novosib. gos. med. inst. 37:118-124 *61. (MIRA 15:6)

1. Novosibirskiy nauchno-issledovatel'skiy sanitarnyy institut (direktor - starshiy nauchnyy sotrudnik Ye. M. Gorbachev) (for Speranskiy).

(ELECTROENCEPHALOGRAPHY)
(QUINACRINE_TOXICOLOGY)
(PSYCHOSES)

ABRAMOVA, Zh.I., kand. med. nauk; GADASKINA, I.D., prof.; GOLUBEV,
A.A., kand. med. nauk; DANISHEVSKYY, S.L., prof.; ZIL'BER,
Yu.D., kand. med. nauk; LAZAREV, L.N., kand. khim. nauk;
LEVINA, E.N., doktor med. nauk; LOYT, A.O.; LYUBLINA, Ye.I.,
doktor biol. nauk; LYKHINA, Ye.T., kand. biol. nauk;
MINKINA, N.A., kand. med. nauk; RUSIN, V.Ya., kand. med.
rauk; SALYAMON, L.S., kand. med. nauk; SPERANSKIY, S.V.,
TRAKHTENBERG, I.M., dots.; FILOV, V.A., kand. biol. nauk;
TSIRK, K.G., kand. med. nauk; CHEKUNOVA. M.P., kand. med.
nauk; CRIVA, Z.I., red.; LAZAREV, N.V., zasl.deyat.nauki,prof.,
red.; LEVIN, S.S., tekhn. red.; BASINA, M.Z., tekhn. red.

[Toxic industrial substances; handbook for chemists, engineers and physicians] Vrednye veshchestva v promyshlennosti; spravochnik dlia khimikov, inzhenerov i vrachei. Izd.4., perer.i dop. Leningrad, Goskhimizdat. Pt.2.[Inorganic and metalloorganic compounds] Neorganicheskie i elementorganicheskie soedineniia. 1963. 619 p. (MIRA 17:2)

SPERANSKIY, S.V.

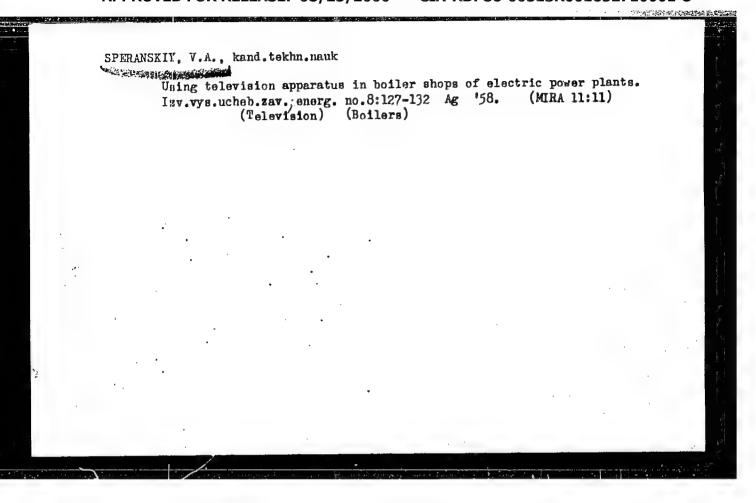
Advantages of the use of an increasing current in studying the ability of white mice to summate subthreshold impulses. Farm. i toks. 28 no.1:123-124 Ja-F *65. (MIRA 18:12)

1. Toksikologicheskaya laboratoriya (zav. - prof. I.D.Gadaskina) Leningradskogo nauchno-issledovatel'skogo instituta gigiyeny truda i professional'nykh zabolevaniy. Submitted May 5, 1964.

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KHAHIN, N.N.; KHARAPINSKIY, Ya.L., prof., red.; SPEHANSKIY, V.A., red.

[Nathematical logic and the theory of sets; relation between the abstract and the concrete] Matematicheskaia logika i teoriia mnozhestv; o sootnoshenii abstraktnogo i konkretnogo. Moskva, Rosvuzizdat, 1963. 191 p. (MIRA 17:6)

3PV 23 17, 7. 9. ed.

Trovarovedomic islahevylh produktov (uchabnos rosable dlia tovarovednych otpelenii islahlam v povelchoi torgavii) / Science of flad produces; manual for commodition science divariments in technical incli utem of Sovie' commerce. Mosky, Gostorgizdat, 1953. 640 p.

33: Monthly Line of Russian Accessions, Vol 7 No 2 May 1954.

USATYUK, M.K., kand.tekhn.nauk; SPERANSKIY, V.G., prof., doktor tekhn.nauk, red.; PETROVA, R.G., tekhn.red.

[Potatoes and vegetables, their handling, and principles of their processing] Tovarovedenie kartofelia i ovoshchei s osnovami ikh pererabotki. Pod red. V.G.Speranskogo. Moskva, Vses.zaochnyi koop.tekhnikum TSentrosoiuza, 1956. 221 p.

(MIRA 13:12)

(Potatoes)

(Vegetables)

INIKHOV, Georgiy Sergeyevich, prof.; MAKARHYMV, Mikhail Anan'yevich; SUKHAHOVA, Yakaterina Yur'yevna, kand. tekhn. nauk; SPERANSKIY, V.G., prof., red.; MAKSINOVICH, A.G., red.; SUDAK, D.M., tekhn. red.

[Food products] Tovarovedenie prodovol'stvennykh tovarov. Pod red. V.G. Speranskogo. Moskva, Gos. isd-vo torg. lit-ry. Vol.2. [Dairy. meat. and fish products] Molochnye, miasnye i rybnye tovary. 1958. 314 p. (MIRA 11:10)

SPERANSKIY, Vasiliv Georgivarich, prof., doktor tekhn.nauk; NECHAYEVA, Ye.G., red.; EL'KINA, E.M., tekhn.red.

[Biological principles of the keeping quality of fruits and vegetables] Biologicheskie osnovy sokhraniaemosti plodov i ovoshchei. Moskva, Gos.izd-vo torg.lit-ry, 1961. 126 p.

(Fruit—Storage) (Vegetables—Storage)

ACCESSION NR: AP5019508

UR/0330/65/000/007/0023/0025 664, 8/, 9, 634, 511, 631, 551, 004:4

AUTHOR: Speranskiy, V. G. (Doctor of technical sciences, Professor); Strakhova, S.A. (Aspirant)

TITLE: Changes in the composition of the walnut during maturing, ripening, and storage

SOURCE: Konservnaya i ovoshchesushil'naya promyshlennost', no. 7, 1965, 23-25

TOPIC TAGS: walnut, walnut structure, walnut storage, walnut ripening

ABSTRACT: A study was made on walnuts (J. r. var. Ovalis, Obovata, Elongata, and Ovata) grown in the Moldavian SSR in order to determine the optimum time whem walnuts should be picked. During ripening, the content of sugars and their relative amounts change; the rapid accumulation of sucrose is probably due to the conversion of starch, whose content decreases. During final ripening, however, the change in sugar is quite different: the content of invert sugar and sucrose decreases, and at the end of the process their amounts are equal, indicating that a vigorous respiration in which sucrose and monose participate takes place during this period; at the same time, the amount of starch also decreases. During storage, the change in sugars is different: invert sugar remains almost unchanged during the initial period of storage, then increases toward the end, whereas the amount of sucrose gradually decreases. Thus, sucrose is chiefly consumed in the respiration during storage, the content of starch decreasing only slightly. During

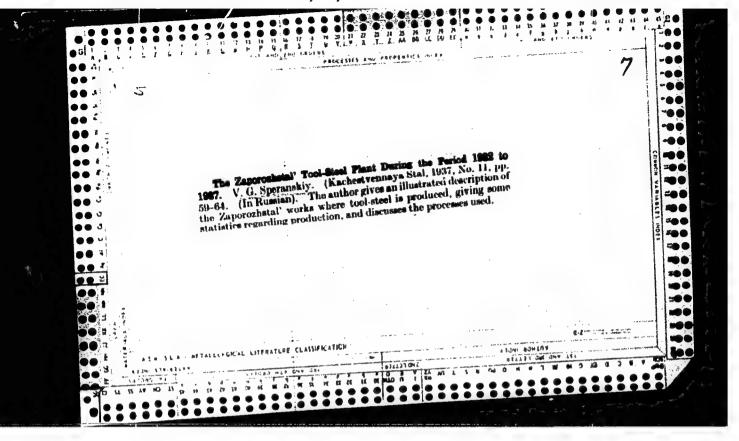
ACCESSION NR: AP5019508

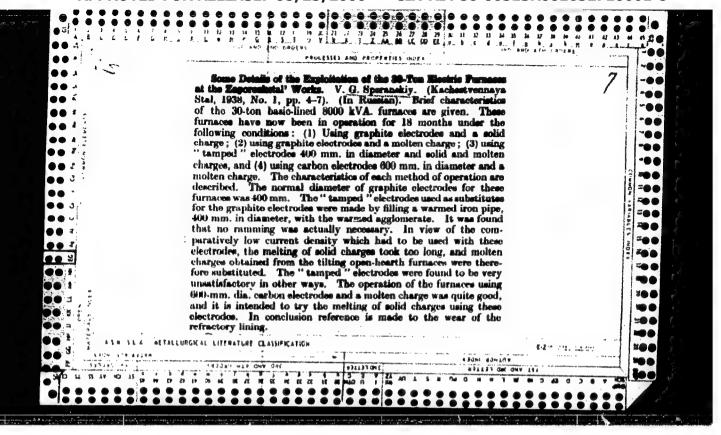
maturing, the fat content increases, then decreases during storage, causing a decline in the quality of the walnut. However, an increase in the content of free fatty acids has no adverse effect on the taste. Changes in tannins, organic acids, cellulose, mineral substances, and proteins are briefly described. The studies show that there are varieties of the walnut which are capable of ripening; this is very useful in determining the correct time for harvesting walnuts. Orig. art. has: 2 tables.

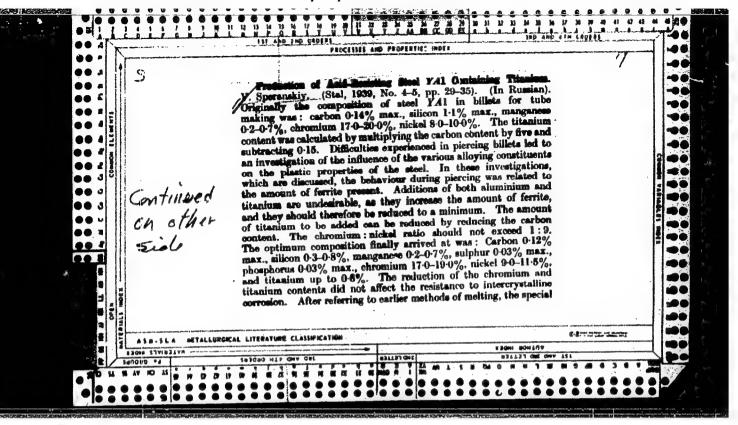
ASSOCIATION: Moskovskiy kooperativnyy institut Tsentrosoyuza SSSR (Moscow Cooperative Institute, Tsentrosoyuz, SSSR)

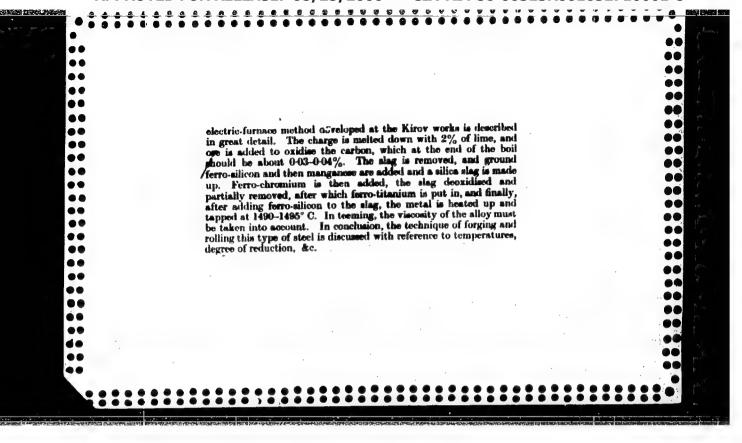
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USSR/Engineering Jun 48

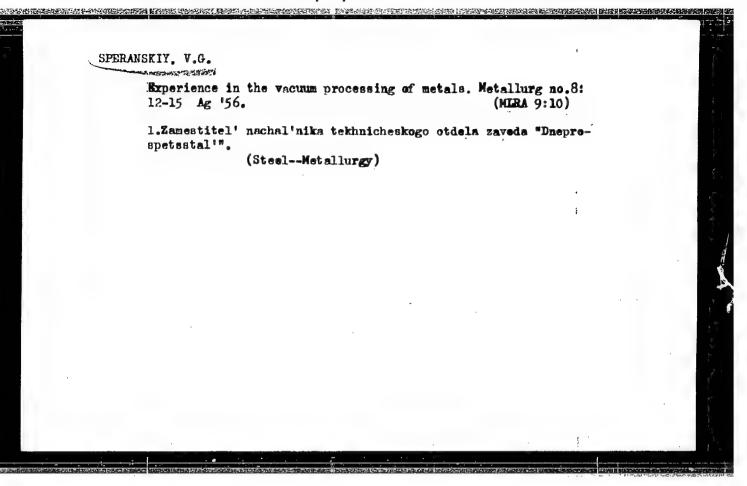
Metallurgy, Ferrous
Ball Bearings

"Production of Ball Bearing Steel," S. Z. Yudovich
and V. G. Speranskiy, Engineers, Kuznets Metallurgical
Combine, "SpeteStel'" Works, 9t pp

"Stal'" No 6

Describes technological process for manufacture of
ShKh15 steel and methods for controlling purity of
steel, particularly exclusion of nonmetallic matter.
Suggests greater mass production of this type of
steel without loss of quality due to great demand.

1/49717



SPERANSKIY, V.G.

Performance of electric furnaces of varying capacity. Metallurg no.11:20-21 N '56. (MLRA 10:1)

1. Machal'nik tekhnicheskogo otdela zavoda "Dneprospetsstal"." (Electric furnaces)

former steel are given, and properties of the steel are described. The book draws on the work practices of the "Dneprospetsstal"

Plant (Zaporozh'ye). There are 8 references, all Soviet. No Card 1/2
APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001652710001-8"

Producing Transformer Steel in Electric Furnaces	525
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I. Characteristics Required of Transformer Steel	3
II. Technology of Making Transformer Steel in Electric Furnaces	
Charge materials	. 6
Oxidizing period of melting	7
Reducing period of melting	9
III. Optimum Technology of Production of Transformer Steel with Vacuum Treatment of the Metal in the Ladle	15
L Melting the steel	24
2. Teeming and vacuum treatment of steel	24
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ransformer Steel	39
AILABLE: Library of Congress (TN 706.B6)	J9 ·
rd 2/2 _GO/ad	
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SPERANSKIY, Viktor Grigorivavich; BORODULIN, Georgiy Mikhaylovich;
BOYARSHINOV, V.A., redaktor; ZINGER, S.L., redaktor izdatel'stva;
EVENSON, I.M., tekhnicheskiy redaktor

[Technology of stainless steel production] Tekhnologiia
proizvodatva nerzhaveiushchei stali. Moskva, Gos. nauchno-tekhn.
izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1957.
202 p. (MIRA 10:5)

(Steel, Strinless)

SPERHNSKIY, V. G

TITLE: Book Review - by Speranskiy, V.G. 133-5-9/27

PERIODICAL: "Stal'"(Steel), 1957, No.5, pp. 423-424 (U.S.S.R.)

ABSTRACT: F.P. Yedneral "Electrometallurgy of steel and ferroalloys, (General Course)." (Elektrometallurgiya stali i ferrosplavov (obshchiy kurs), Metallurgizdat, Moscow, 1955, 510 pages. Except for the pointing out of a few errors or inaccuracies, which can be corrected in the next edition, the reviewer considers that the book is extremely useful.

AVAIIABLE:

Card 1/1

AUTHOR: Speranskiy, V.G.

130-10-3/18

TITLE: Perfecting Technology and New Technipes (Sovershenstvovaniye

tekhnologii i novaya tekhnika)

PERIODICAL: Metallurg, 1957, No.10, pp. 5 - 8 (USSR).

ABSTRACT: In this article, some of the major technological developments which have taken place recently at the "Dneprospetsstal" Works are described. These include the vacuum-treatment of steel in the ladle and also while being prured from one ladle to another and the use of oxygen in electric furnaces during melt-down and oxidation, the blowing being effected through water-cooled tuyeres (Fig.1). The effects of these techniques on metal quality and yield are discussed. Experience is said to have shown that metal containing tungsten can be oxygen-blown and this and some other features of this technique are considered. Other developments dealt with include modernisation of the furnaces, the use of chromite for fettling, substitution of rolling for hammering, increase in ingot weights, mechanisation of materials and improvements in rolling-mill equipment. There are 3 figures and one table.

ASSOCIATION: "Dneprospetsstal'" Works (Zavod "Dneprospetsstal'")

AVAILABLE:

Library of Congress.

card 1/1

SHERANOKIY, V. 4.

AUTHOR: Speranskiy, V. G., Engineer

133-10-11/26

TITIE: Technical and Economic Indices of Electric Smelting of Steel. (Cekhniko-Ekonomicheskiye Pokazateli Elektroplayki).

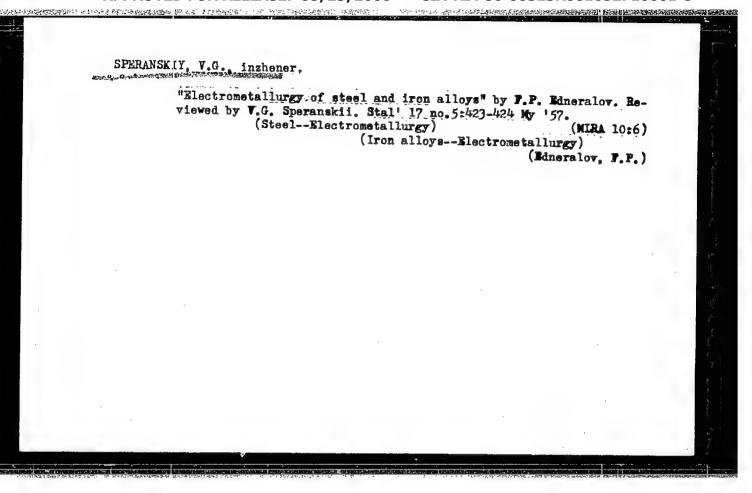
PERIODICAL: Stal', 1957, No.10, pp. 909-912 (USSR).

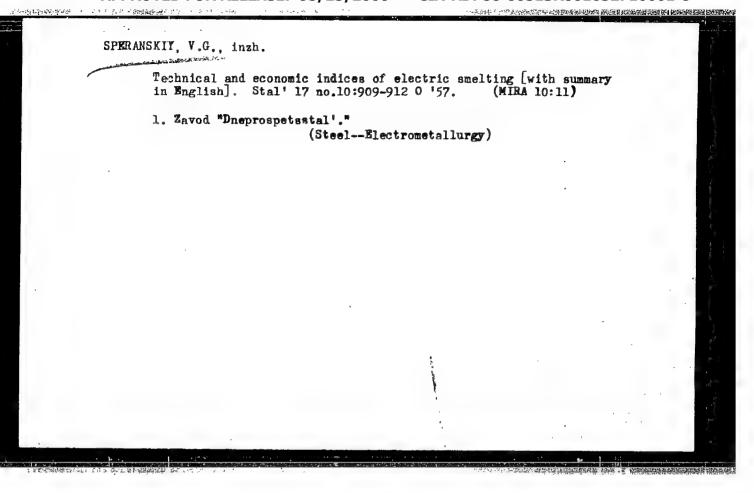
ABSTRACT: A comparison of furnace operating data for the period 1952-56, illustrating the progress made is given. Changes in the mean duration of heats - Table 1; changes in the mean weight of heats - Table 2; daily steel production (tons) per 1000 kW of the transformer power; stoppages (%) excluding planned repairs - Table 4; changes in the consumption of metallic charge per ton of steel made - Table 5; changes in specific power and electrode consumption - Table 6; changes in the consumption of ingot moulds - Table 7; changes in the durability of magnesite-chrome roofs - Table 8 and changes in the durability of wall lining - Table 9. The proportion of defective metal decreased from 5.9% in 1952 to 2.09% in 1956. There are 9 tables.

ASSOCIATION: Dneprospetsstal' Works. (Zavod Dneprospetsstal').

AVAITABLE: Library of Congress

Card 1/1





137-58-6-11795

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 85 (USSR)

AUTHOR Speranskiy, V.G.

TITLE: Technical and Economic Indices Relative to the Making of Structural and Tool Steel with Oxygen (Tekhniko-ekonomicheskiye pokazateli vyplavki konstruktsionnoy i instrumental'noy stali s

primeneniyem kisloroda)

PERIODICAL: Tr. Nauchno-tekhn. o-va chernoy metallurgii, 1957, Vol

18, pp 549-555

ABSTRACT: The introduction of O₂ into the bath of electric furnaces during the melt-down period is done at the Dneprospersstal' plant with 12.7-19.05 mm diameter Fe lances and, during the oxidation period, by a water-cooled tuyere in the roof, with delivery at 5-8 atm excess pressure and at a rate of 600-900 m³/hr. The consumption of O₂ during the melt-down period is 7-10 m³/t, and the increase in [O] to 0.031% during this period does not result in contamination of the steel by nonmetallic in-

clusions. When the flow of O₂ during the period of oxidation is 12-18 m³/t, the duration thereof diminishes by 12 min on the

Card 1/2 average, and the electric energy consumption declines by 25

137-58-6-11795

Technical and Economic (cont.)

kwh. It is indicated that further reduction in the duration of the oxidation period is limited by delays in chemical analysis of the metal and that the [O] in the metal at the end of the period indicated, in heats with and without O2, is identical; it amounts to 0.014-0.049%. The use of O2 improved the utilization of alloy scrap and reduced the consumption of soft Fe in the charge; the result was a diminution of Fe-Cr and Ni consumption and a 20-23% drop in the cost of the steel It is recommended that in the smelting of fast cutting steel with O2, the charge not exceed 0.65% V, and that in smelting transformer steel the ore be oxidized to 0.1% C and further with O2, with continuous renewal of the lime slag so as to emerge with < 0.008% P, whereas in the smelting of other steels the lime slag be maintained to the end of the melt-down by adding 2 5-3 0% lime with addition of O2 to speed the melting of the charge; this operation yields 0.015-0.025% P. It is shown that the making of steel by remelting with partial oxidation by O2 does not impair the quality of the metal and makes it possible to cut the number of categories of steel-alloy waste that have to be maintained at the plant and raise the quantity thereof employed in the charge

A.Sh.

1. Steel--Production 2. Tool steel--Production 3. Oxygen--Effectiveness Card 2/2 4. Electric furnaces--Operation

PETROV, A.K.; SPERANSKIY, V.G.; KHIZHNICHENKO, A.M.; SHILYAYEV, B.A.;

DANILOV, A.K.; BORODULIN, G.M.; ZAMOTAYEV, S.P.; MARKARYANTS, A.A.;

SOLNTSEV, P.I.; SMIRNOV, Yu.D.; VAYNBERG, G.S.; OKOROKOV, N.V.;

KOLOSOV, M.I.; SEL'KIN, G.S.; MEDOVAR, B.I.; LATASH, Yu.B.;

YEFROYMOVICH, Yu.Ye.; VINOGRADOV, V.M.; SVEDE-SHVETS, N.N.;

SKOROKHOD, S.D.; KATSEVICH, L.S.; SHTROMBERG, Ya.A.; MIKHAYLOV,

C.A.; PATON, B.Ye.

Reports (brief annotations). Biul. TSNIICHM no.18/19:67-68 '57.

(MIRA 11:4)

1. Zavod Eneprospetsstal' (for Speranskiy, Borodulin). 2. Chelyabinakiy metallurgicheskiy zavod (for Khizhnichenko). 3. Uralmashzavod
(for Zamotayev). 4. Trest "Elektropech'" (for Vaynberg). 5. Moskovskiy institut stali (for Okorokov). 6. TSentral'ny; nauchno-issledovatel'skiy institut chernoy metallurgii (for Sel'kin, Svede-Shvets).
7. Institut elektrosvarki AN USSR (for Paton, Medovar, Latash).
8. TSentral'naya laboratoriya avtomatiki (for Yefroymovich.
Vinogradov). 9. Gisogneupor (for Skorokhod). 10. Trest "Elektropech'"
(for Katsevich). 11. Tbilisskiy nauchno-issledovatel'skiy institut
okhrany truda Vsesoyuznogo tsentral'nago soveta profsoyuzov (for
Ehtromberg).

sov/1528

18(5)

PHASE I BOOK EXPLOITATION

Speranskiy, Viktor Grigor'yevich, and Gennadiy Vasil'yevich Plenchun

Vakuumnaya obrabotka stali (Vacuum Treatment of Steel) [Moscow] Izd-vo VTsSPS Profizdat, 1958. 68 p. 3,000 copies printed.

Ed.: V.M. Pankova; Tech. Ed.: N.D. Shadrina.

PURPOSE: The purpose of this booklet is to acquaint the general reader with the advanced processes of steel making in a vacuum.

COVERAGE: This booklet describes the vacuum treatment of steel. principles involved and the beneficial effects of the vacuum on molten steel are explained. The most commonly used methods of treating steel in a vacuum are described and illustrated. The text contains schematic diagrams of the commonly used layouts and of the vacuum equipment. No personalities are mentioned. There are 8 Soviet references.

TABLE OF CONTENTS:

The Most Important Task Card 1/3

3

CIA-RDP86-00513R001652710001-8 "APPROVED FOR RELEASE: 08/25/2000 533 Moscow, Izd-vo AN SSSR, 1958, 165pp. Trans. of a Conf. on Use of Vacuum in Metallurgy, (ed. SAMARIN, A. M.)

Note of a Conf. on Use of Vacuum in Metallurgy, (ed. SAMARIN, A. M.)

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Note of a Conf. on Use of Vacuum in Metallurgy, (ed. SAMARIN, A. M.) SPERANSKTY V G. Metallurgy electric steel in the ladle at the "Dneprospetsstal!" Plant; Teeming of high-alloy steel and alloys in a protective atmosphere. There are 3 refer-Speranskiy, V.G. Experinece Gained in the Vacuum Treatment of Steel and Teeming in a Protective Atmosphere at the "Dneprospetsstal" Plant Tests conducted at the plant show that vacuum treatment in the ladle makes

It possible to produce low-carbon and low-sulfur transformer steel .ml also low-hydrogen steel for bearings; that the ingot surface of high-alloy steel is improved by teening in an atmosphere of argon; and that vacuum chambers is improved by teeming in an atmosphere of argon; and that vacuum chambers for treatment in the ladle are easy to use. The plant has been making vacuum-treated transformer steel on an industrial scale since 1955.

Gostev, K.I. Results of Research on the Use of Vacuum in the Teeming of Alloy

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Steel .

It consists pipe system and cooler.

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103

18(5). 25(1)

SOV/125-12-4-9/18

AUTHOR:

Tregubenko, A.F., Engineer, and Speranskiy, V.G.

TITLE:

Electric Slag Remelting of Steel in the Factory

"Dneprospetsstal'", Zaporozh'ye.

PERIODICAL:

Avtomaticheckaya svarka, 1959, Vol 12, Nr 4, pp 71-83

(USSR)

ABSTRACT:

The article describes a new furnace, which is working eince May 1958 in the factory "Dneprospetastal'".

The furnace was planned and produced by the Institute for Electric Welding (Institut elektrosvarki) /Ref 1, 2,37. To introduce the electric slag process, a fusing agent type AN=25 was used, which is electric conductive in solid state. For developing the "slag tub" in most cases, the fusing agent type NF-6 (system: CzF₂ - Al₂O₃) was used. 288 ingots of steel were remelted, 181 of them ball bearing steels (ShKh 15 and

ShKh 15 SG). 19 of the others were EI 654, 16 cm Kh 72, 9 - 38 KhMYuA, 10 - IKhl8N9T, 19 - ingots of rapid steel (R 18 and R18M), the rest - 2Khl3, 18KhNVA,

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SOV/125-12-4-9/18
Electric Slag Remelting of Steel in the Factory "Dneprospects stal'"

Kh17N2. The "electric slag" remelting decreases soiling by non-metal substances. One gets a much better macro-structure of the metal and in hot state a higher plasticity. In the steel type 1Kh18V9T, the ferrite-component decreases. In rapid steels also the carbide heterogenity increases. The contents of sulphuris greatly decreased by the process of remelting. There are 9 photographs, 1 diagram, 4 tables and 4 Soviet references.

ASSOCIATION: Elektrometallurgicheskiy zavod "Dneprospetsatal'"

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"Dneprospetsstal'" imeni A.N. Kuz'min)

SUBMITTED: January 19, 1959

Card 2/2

KALININA, Zoya Mikhaylovna; SPERAESKIY, V.G., retsenzent; VINOGRAD, M.I., red.; SYRCHINA, M.M., red.izd-va; TURKINA, Ye.D., tekhn.red.

[Defects of alloyed steel] Defekty legirovannykh stalei.
Sverdlovek, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i
tsvetnoi metallurgii, Sverdlovekoe otd-nie, 1960. 247 p.

(NIRA 14:3)

(Steel alloys--Defects)

TREGUEENKO, A.; SPERANSKIY, V. G.

Riectroslag remelting. NTO 2 nc.8:10-11 Ag '60. (MIRA 13:10)

1. Direktor zavoda "Dneprospetsstal" (for Tregubenko). Machal'nik tekhnicheskogo otdela zavoda "Dneprospetsstal" (for Speranskiy).

(Steel--Metallurgy)

s/133/61/000/003/005/014 A054/ A033

AUTHROS:

Tregubenko, A. F.; Speranskiy, V. G.; Leybenzen, S. A.

Electroslag melting of steel

TITLE:

PERIODICAL: Stal', no. 3, 1961, 233 - 238

An electric furnace designed by the institut elektrosvarki im. Ye. O. Patona (Institute of Electric Welding im. Ye. O. Paton) for the remelting of steel produced in the conventional arc furnace under slag and for the casting of ingots in water-cooled crystallizers has been in operation since May, 1958. The original furnace was re-designed (Figure 1), with an increased capacity, by A. Ya. Kovalenko and consists of two sets of crystallizers, (3 in each set) which operate alternatively: in one set smelting takes place, in the other prepartions are made. The furnace operates with 2250 kw, 6 - 7 ka and 50 v. In the crystallizers (formerly made of copper, now of steel) circular (300 mm in diameter) or square ingots (310 x 310 mm) are smelted: the weight of the former is 700 - 950 kg and that of the latter 1100 kg. Cooling water is fed into the crystallizer and bottom plate at 3.5 - 5.0 atm pressure, depending on the water temperature.

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s/133/61/000/003/005/014 A054/A033

Electroslag melting of steel

the crystallizer is made of copper. There is a support to hold the electrode which in this process functions as the charge. In the most recent construction the crystallizer is made of acamless tubes. This solved the welding problems and eliminated the development of a crust during smelting which impurifies the metal. Two kinds of fluxes are used in the electroslag smelting process: 1) a solid flux to conduct the electric current, 2) an working flux for the smelting process, usually of the AH+-6 (ANF-6) type containing about 65 % CaF2, 30 - 35 % Al203, 3 - 6 % CaO and maximum 1 % (MgO+SiO₂+FeO). A mixture consisting of the NAM (DAM) aluminum magnesium nowder and the coordinate of t mixture consisting of the NAM (PAM) aluminum magnesium powder and the operating flux can also be used as electro-conducting flux. When the furnace is prepared for operation, the inoculator of the crystallizer, made of CT.2 and CT.3 (St.2, St.3) steel discs 295 mm in diameter and 35 mm in height is first fixed to the copper plate, next the inoculator is sprayed with 400 g electro-conducting flux, then the gap between the inner wall of the crystallizer and the electrode is filled with the working flux (23 kg for 700 kg ingots). The transformer is adjusted manually during the first 10 - 15 minutes and, after the stabilization of the process, the furnace is switched over to automatic operation. The smelting process is finished by switching off the mechanism feeding the electrode. After the electric current supply

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Entroslag melting of steel

is stopped, the ingot is cooled for some time, then it is discharged from the furnace mechanically. In this phase of the process the ingot has a temperature of about 1000°C at the top, while it is cooled to a dark grey colour at its base. In 1959 the electroslag remelting furnace (producing 700 - 720 kg ingots) passed the following operation characteristics: Productivity, (including preparations) 460 kg/h; specific electric power consumption 1250 kwh/t; specific electrode consumption 1.02 t/t; Specific ANF-6 flux consumption 35 kg/t; specific cooling-water consumption 240 cum/t (approx.). The effect of electroslag remelting has been investigated for 1X18H91 (1Kh18N9T) stainless steel, 3M654 (EI654) high-alloy sustenite steel containing aluminum and titanium, 18XHBA (18KhNVA) and 38XM9A (38KhMYAA) structural steels, 218 (R18) and P18M (R18M) high-speed steels and X28 (Xh28) and 2X13 (2Kh13) grade steels. For all steels it was found that electroslag smelting improves the quality of the metal considerably. Irrespective of the electrode applied, the metal obtains a dense macrostructure almost free from porosity; non-metallic impurities are decreased and the inclusions occurring are not arranged in aggregations. The mechanical properties of the metal are also improved. Since the inclusions are not aggregated, flakes become

Card 3/6

SPERANSKIY, Viktor Grigor'yevich; POZDNYAKOVA, G.L., red. izd-va;
ATTOPOVICH, M.K., tekhn. red.

[Aid for the electric steel smelter] V pomoshch' elektrostaleplavil'shchiku; spravochnye materialy. Moskva, M tallurgizdat, 1962. 199 p. (MIRA 16:7)

(Steel—Electrometallurgy)

SPERANSKIY, Viktor Grigor'yevich; ZABALUYEV, Ivan Parfenovich

[Quality control of electric furnace steel] Kontrol' kachestva elektrostali. Moskva, Izd-vo Matallurgiia, 1964.

(Mira 17:5)